EXPLANATION

Values of iron, manganese, and color shown under

STREAMS

the first set of symbols are the limits recommended by the U.S. Public Health Service (1962) for drinking water. Combination of two or more ticks on symbols indicate that the water falls within two or

Concentration of iron 0.3 mg/1 or less, manganese 0.05 mg/l or less, and color 15 units or less.

Concentration of iron more than 0.3 mg/l

Concentration of manganese more than 0.05 mg/l

Sea water and mixed fresh and salt water of tidal

reaches of streams that has concentration of

dissolved solids greater than 500 mg/l at high

Concentration of dissolved solids in streams and

Areas in which large withdrawals of ground water

STATION OR WELL

NUMBER AND DATE

COLLECTION

ANALYSES BY U.S. GEOLOGICAL

SURVEY AND, WHERE INDI-

CATED BY ASTERISK, BY MAS-

SACHUSETTS DEPARTMENT OF

Station number is that used to identify

gaging stations and low-flow partial-record data collection sites of the U.S. Geological

65+22 (Population density)

1 2 3 4 5 6

THE CHEMICAL QUALITY OF STREAM-

nterior Geological Survey, Reston, Va. 1978-W76149

POPULATION DENSITY OF DRAINAGE BASIN, IN HUNDREDS OF PERSONS PER SQUARE MILE

FLOW IS RELATED TO THE POPULATION

DENSITY OF THE DRAINAGE BASIN.

0 1 2 3 KILOMETRES

A sample containing

per litre not shown

each scale is the standard error

of estimate. The relations are

SPECIFIC CONDUCTANCE, IN MICROMHOS

PER CENTIMETER AT 25 DEGREES CELSIUS

latitude and elevation (Tasker and Burns, 1974).

AN ESTIMATE OF THE CONCENTRATION OF SOME CONSTITUENTS IN STREAM

STREAM TEMPERATURE VARIES FROM ABOUT ZERO DEGREES CELSIUS (32°F)

IN JANUARY AND FEBRUARY TO ABOUT 25 DEGREES CELSIUS (77°F) IN LATE JULY

DURING A TYPICAL YEAR.—In central New England, stream temperature for a normal year

may be approximated by a simple harmonic function whose period and amplitude depend on

WATER CAN BE MADE BY MEASURING THE SPECIFIC CONDUCTANCE.—For example,

a specific conductance of 150 micromhos (microsiemens) indicates a concentration of chloride of

streams during periods of

low flow-

may induce vertical or lateral movement of fresh-

/salt-water interface to produce increase in

Town line

ponds equal to or less than 500 mg/l.

more categories, described below.

WELLS

Color exceeds 15 units

tide when streamflow is low

chloride concentration. _____ Study area boundary

